

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial No.10/693,396
 Filing Date 10/24/2004
 Confirmation No.2522
 Inventorship Snover et al.
 Assignee Microsoft Corporation
 Group Art Unit2192
 Examiner Chrystine Pham
 Attorney's Docket No. MS1-1740US
 Title:.....Mechanism for Obtaining and Applying Constraints to Constructs within an Interactive Environment

DECLARATION UNDER 37 C.F.R. § 1.131

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

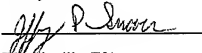
I am an inventor of the subject matter which is claimed and for which a patent is sought in the application entitled "Mechanism for Obtaining and Applying Constraints to Constructs within an Interactive Environment," as identified above.

We conceived of the invention(s) recited in the pending claims of the subject patent application in the United States prior to the February 3, 2003 filing date of U.S. Publication No. US2004/0153995 to Polonovski *et al.* (hereinafter, "Polonovski").

Attached to this declaration is evidence documenting that the invention was conceived prior to February 3, 2003, which predates the filing date of the Polonovski. In particular, attached hereto as Exhibit A is a redacted copy of confidential documentation created prior to February 3, 2003, documenting the systems and methods disclosed in the above-referenced patent application. Non-essential portions of Exhibit A have been redacted. Although the actual date(s)

have been redacted from the documentation provided as Exhibit A, I declare that the actual date(s) of creation of this documentation was prior to February 3, 2003.

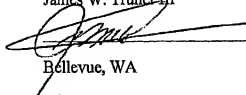
All statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statement may jeopardize the validity of the application or any patent issued therefrom.

Full name of inventor: Jeffrey P. Snover
Inventor's Signature  Date: 3/13/07
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Citizenship: USA
Post Office Address: c/o Microsoft Corporation, One Microsoft Way,
Redmond, WA 98052

Full name of inventor:

James W. Truher III

Inventor's Signature



Date:

3/13/07

Residence:

Bellevue, WA

Citizenship:

USA

Post Office Address:

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Redmond, WA 98052

Full name of inventor:

Kaushik Pushpavanam

Inventor's Signature

_____ Date: _____

Residence:

Sammamish, WA

Citizenship:

India

Post Office Address:

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Redmond, WA 98052

Full name of inventor:

Subramanian Viswanathan

Inventor's Signature

_____ Date: _____

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Citizenship:

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* * * * *

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Inventor's Signature _____ Date: _____
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Full name of inventor: Kaushik Pushpavanam
Inventor's Signature P. Kaushik Date: MAR 13, 2007
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Citizenship: India
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Full name of inventor: Subramanian Viswanathan
Inventor's Signature _____ Date: _____
Residence: Redmond, WA
Citizenship: USA
Post Office Address: c/o Microsoft Corporation, One Microsoft Way,
Redmond, WA 98052

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ExaminerChristine Pham
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Inventor's Signature _____ Date: _____
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Inventor's Signature  _____ Date: May 14, 2007
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Microsoft Patent Pre-disclosure Document

Title of Invention: Application of Attribution and Metadata to Command-line use

Introduction:

This invention allows for the application of attribution to an interactive command-line usage pattern. The issues addressed by this invention are as follows: While many *compiled* languages allow for attribution of variables, functions, classes etc, there is no existing mechanism for utilizing these constructs in an interactive environment. The Monad parser allows for the use of metadata from within an interactive environment. Attributions indicate behavior about the object that result in less code being written. Also, attributions may be used to reduce the amount of code that would be written by a developer or administrator and thus, will become integral to command-line usage.

Description of the Invention:

When a user types a command at the command-line, the interpreter first determines whether there is any attribution associated with the command-line by looking at the first token. If the token starts with a "[" and ends with a "]", that token is an attribution token. Multiple attribution tokens may be associated with a non-attribution token. After an attribution token has (or set of tokens have) been discovered, it must be applied to the next non-attribution token.

[Integer][ValidationRange(3,5)] Sa = 4

The line above has two attribution tokens; the first token indicates that the variable will be of type Integer. The second attribution indicates that the value of the variable Sa must be between 3 and 5 inclusive. This attribution ensures that if Sa is assigned in a subsequent command, it will be checked against the two constraints. Thus, the following would result in an error:

Sa = 231

Sa = "apple"

Sa = \$(get/location)

The list of possible attributions is not fixed, but is extendable.

Diagrams and Flow Charts:

Exhibit A



Exhibit A

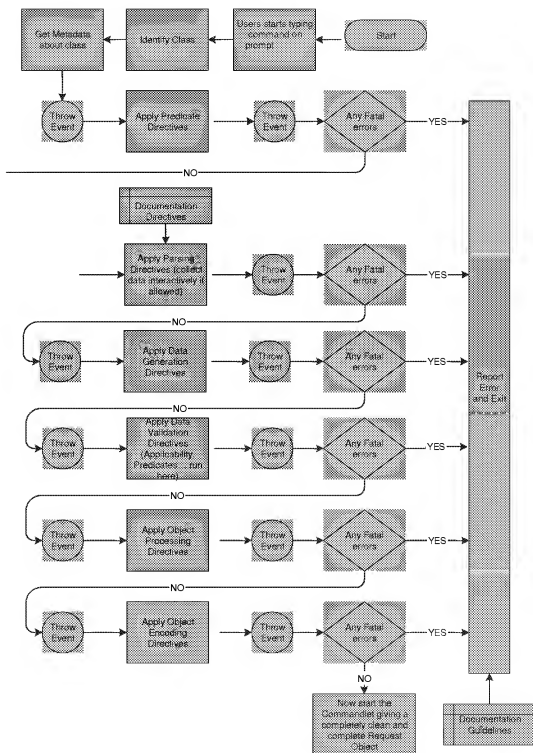


Exhibit A

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

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[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

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[REDACTED]